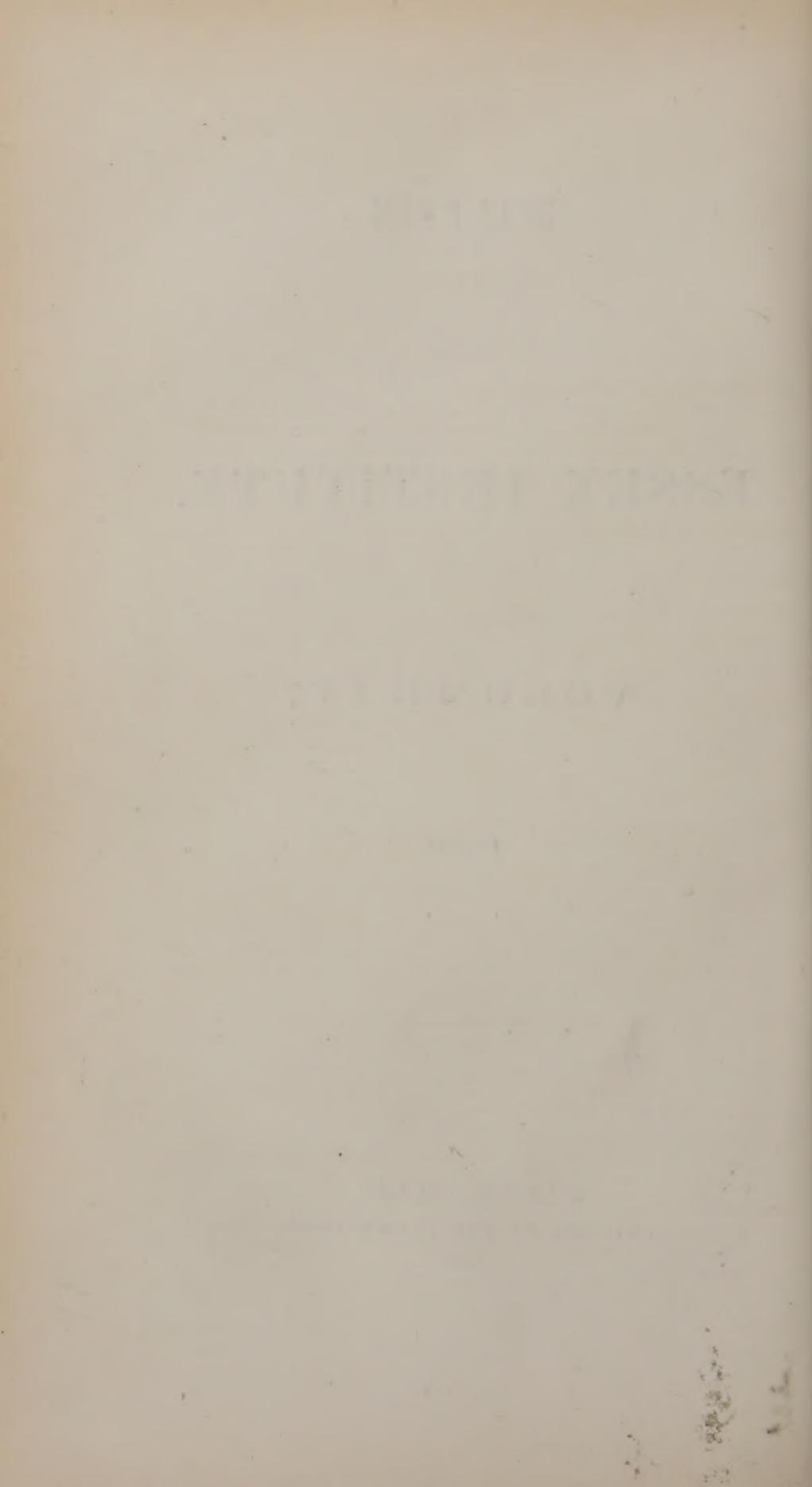


BULLETIN
OF THE
ESSEX INSTITUTE,

VOLUME IV,

1872.

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CONTENTS.

	Pag .
Regular Meeting, Monday, January 1,	1
Puritan Holy Days, by A. C. Goodell, Jr., 2. Injurious Insects in Essex County, by Dr. A. S. Packard, 5. F. W. Putnam's Remarks on the Caterpillars and Pupæ of the Cabbage Butterfly, 9.	
Letters Announced, 19, 23, 27, 46, 49, 56, 61, 75, 83, 103, 132, 151, 160, 165, 177, 178	
Additions to Library, 9, 11, 19, 24, 27, 46, 49, 56, 61, 76, 83, 103, 131, 152, 158, 161, 166, 177, 179	
Additions to Cabinet,	85, 178
Additions to Historical Department,	104
Deficiencies in Library,	12
Publications of Institute,	14
Regular Meeting, Monday, January 15,	10
A Trip to California by Rail, by J. J. H. Gregory, Esq., of Marble-head, 10, 17.	
Regular Meeting, Monday, February 5,	17
Florida Indians, by M. R. Kimball, 18.	
Regular Meeting, Monday, February 19,	20
Passion Play at Ober-Ammergau, by J. P. Putnam, 20.	
Regular Meeting, Monday, March 4,	25
The Old Carved Chair, by E. W. Farley, of Newcastle, Me., 25. A Relic of "Ye Olden Times"—Stone Mill—D. L. D. Balch, 26. The Closing History of the Branch or Howard St. Church in Salem, by Rev. C. C. Beaman, 26. Communication from Nehemiah Cleveland, of Westport, Conn., 27. Meteorology of Mount Washington, by S. A. Nelson, 29, 41.	
Regular Meeting, Monday March 18,	41
Essex County Spiders, by J. H. Emerton, 47.	
Regular Meeting, Monday, April 1,	48
Communication from James Kimball, 50. Communication from Commodore B. F. Sands, of the U. S. Naval Observatory, 55.	
Regular Meeting, Monday, April 15,	57
On the Transit of Venus, 57. Ancient Topography of Salem, by James Kimball, 59.	
Regular Meeting, Monday, May 6,	61
Ancestry of Susannah Ingersoll; The Fairfax and the Hathorne House, by the President, 62. The Rattle of the Rattlesnake, by F. W. Putnam, 65.	

Annual Meeting, Wednesday, May 8,	66
Retrospect for the Year, 66. Officers elected, 74.	
Regular Meeting, Monday, May 20,	75
Native Plants, by J. Robinson, 76. Remarks of G. D. Phippen, 78; of E. C. Bolles on the Houstonia, 78; of J. H. Emerton, 78. A Visit to Jeffries Neck, by F. W. Putnam, 79.	
Regular Meeting, Monday, June 3,	81
Field Meeting at Middleton, Wednesday, June 12,	81
Account of the Ramble, 82; First Field Meetings; Dr. W. Stimpson, by the President, 85. Resolutions on the Death of Dr. Wm. Stimpson, 88. Early Meetings of the Society, by S. P. Fowler, of Danvers, 89. Historical Notices of Middleton, by David Styles, of Middleton, 90. Indian Relic, by D. J. Tapley of Danvers, 92. F. W. Putnam's Remarks, 93. Spiders at Middleton, by James H. Emerton, 94. Microscopic Fungi, by Rev. E. C. Bolles, 95. Report of the Committee on Lectures, 96. Vote of thanks passed, 97.	
Field Meeting at Groveland, Tuesday, July 16,	97
The New Iron Bridge, 98. Historical Notices, 100. E. S. Morse's Remarks, 107. Merrimack Academy, by Dr. J. Spofford, 108. Remarks by J. H. Emerton, A. S. Phipps, S. C. Beane, E. C. Bolles, La Roy F. Griffin, Mr. Goldsmith and C. H. Webber, 114-116. Vote of thanks passed, 116. The First White Hamburg, and the First Muscat of Alexandria Grape-vine imported into the United States, by Jones Very, 117.	
Field Meeting at Annisquam, Thursday, August 8,	118
Remarks of the President, 121. Indian Shell Heaps, and Egg Case of the Skate, by F. W. Putnam, 123. Historical Notices of the Third Parish at Annisquam, by Rev. E. W. Coffin, of Orange, Mass., 124. Remarks of Allen W. Dodge, L. J. Livermore and James Davis, 128. Historical Sketch of Annisquam, by J. J. Babson, 128. Remarks of C. E. Barnes and Dr. A. Davis, 130. Communications from Thomas Spencer, of Bransby, near Lincoln and E. W. Farley, of New Castle, Me., 132. Remarks of R. Knowland, 134. Catalogue of the Mammals of Florida, with Notes on their Habits, Distribution, etc., by C. J. Maynard, 135-150.	
Quarterly Meeting, Wednesday, August 14,	150
Regular Meeting, Monday, October 21,	150
Explorations of St. George's Bank, by Dr. Packard, 153. Ancient Indian Carving, by F. W. Putnam, 156.	
Regular Meeting, Monday, November 4,	160
Origin of Surnames, by Geo. H. Devereux, 162.	
Regular Meeting, Monday, November 18,	165
Communication by the President, 166. Remarks of F. W. Putnam, 168.	
Regular Meeting, Monday, December 9,	169
Ferneries, How to make them, and what to put in them, by J. Robinson, 169.	
Regular Meeting, Monday, December 23,	178
Communications from P. A. Hanaford and Nehemiah Cleaveland, 179.	

BULLETIN

OF THE
ESSEX INSTITUTE.

VOL. 4. SALEM, MASS., JANUARY, 1872. No. 1.

One Dollar a Year in Advance. 10 Cents a Single Copy.

REGULAR MEETING, MONDAY, JANUARY 1st, 1872.

THE PRESIDENT in the chair. Records of preceding meeting read.

The President mentioned a few of the associations that cluster around this day; a day when the mind naturally reverts to the past, recalls the incidents of the year now closed, and indulges in reveries upon their probable influence in the distant future. No one can foretell the results; some of the most seemingly important will soon pass away and be forgotten, whereas the most apparently trivial, scarcely known beyond the threshold of the humble cot of the occurrence, will, as years roll on, become the centre of great interest and attraction, as the birthplace and home of some of nature's noblemen. He briefly alluded to the holidays that occur near the close of the old and the beginning of the new year, and called upon Mr. A. C. GOODELL, JR., who spoke of the estimation in which these days were held in the early period

of our colonial history, and the great change in the mode of observance within the past few years.

PURITAN HOLY DAYS.

Our forefathers, the Puritans, observed but three classes of holy days; namely, Sabbaths, Fasts and Thanksgivings. In the observance of the first they differed from the Catholic church and from most of the Reformed churches by devoting them exclusively to religious exercises after the Mosaic model. It was on account of this difference between them and their neighboring Protestants in Holland, that the Pilgrims left that country for America. Here they enforced, by law, the strictest observance of the Lord's day, and established periodical fasts and days of thanksgiving.

The first thanksgiving in Massachusetts was observed at Salem, July 8, 1630. Winthrop and his immigrants had arrived about a month before, bringing provisions of which the settlers under Endicott stood greatly in need. Two days before the thanksgiving, Gov. Winthrop's son Henry was drowned in attempting to swim across the North river, after a canoe; so that the occasion was mixed with sadness.

The next thanksgiving was observed at Boston, February 22, 1631. This was on account of the arrival of the ship Lyon, with provisions, which came the day before a fast which had been appointed on account of a threatened famine. The fast was immediately changed to a thanksgiving.

The next and first general thanksgiving was kept by the seven plantations then established, Oct. 16, 1633, and was ordered "in regard of the many and extraordinary mercies which the Lord hath been pleased to vouchsafe of late to this plantation; namely, a plentiful har-

vest, ships safely arrived with persons of special use and quality," etc.

After the arrival of the Province charter, only one instance occurs of a day of thanksgiving set apart by act of the General Court. This was passed Nov. 13, 1693, and the day appointed was Dec. 21, O. S., corresponding to Jan. 2, of our present calendar. Since that time all thanksgiving days have been fixed by executive proclamation, and not by act of the legislature.

CHRISTMAS.

The next subject discussed was Christmas; which was at first a movable feast, celebrated, usually, in April or May. It was probably instituted in the second century, but was not fixed by the Catholic Church, upon Dec. 25, until the pontificate of Julius I., in the fourth century.

The tradition of the church is that the birth of Jesus occurred at midnight, whence the custom in England and some other countries of ringing the church bells at midnight, early dawn, and again in the morning.

The different methods of celebrating the day in different countries and ages were then explained. The revels of the Lord of Misrule commenced at All Hallow Eve (Oct. 31), and continued to Candlemas (Feb. 2). Every day after Christmas was a holiday until twelfth night (Jan. 6). The season was always considered propitious in England, a tradition made memorable by the words of Marcellus to Horatio in the first scene in Hamlet:—

"Some say that ever 'gainst that season comes
Wherein our Saviour's birth is celebrated,
The bird of dawning singeth all night long;
And then, they say, no spirit stirs abroad;
The nights are wholesome; then no planets strike,
No fairy takes, nor witch hath power to charm,
So hallowed and so gracious is the time."

The Puritans were greatly opposed to the observance

of the day, and in 1659 the following law was passed by the Colonial legislature of Massachusetts :—

"For preventing disorders arising in several places within this jurisdiction by reason of some still observing such festivals as were superstitiously kept in other countries, to the great dishonor of God and offence of others, it is therefore ordered by this Court and the authority thereof that whosoever shall be found observing any such day as Christmas or the like, either by forbearing of labour, feasting or any other way, upon any such accounts as aforesaid, every such person so offending shall pay for every such offence five shillings, as a fine to the county."

This ordinance was objected to by the Royal Commissioners in 1665 ; but was not repealed until May 27, 1681.

In three years less than two centuries after the passage of this ordinance, the Legislature [1856, chap. 113], made this day a legal holiday on which even the sovereign legislature is not permitted to sit, and all government offices are closed.

NEW YEAR'S DAY.

New Year's day was then considered. The beginning of the year was very various in different ages and countries. Until the middle of the eighteenth century there were no less than seven days reckoned as this period ; viz.,—Jan. 1 (as now) ; Jan. 1 (one year in advance) ; Dec. 25 ; Easter ; March 1 ; March 25 (nine months sooner than the present time) and March 25 (three months later than the present time). This last, called the Florentine style or calendar, was the one in use in England and this colony until 1752, when it was changed to Jan. 1, and the Gregorian calendar adopted instead of the Julian which had been previously in use. The necessity of this change was then explained.

The Romans from whom we get the names of our months began the year with March, hence September, as its name implies, was really the seventh month, October the eighth, and so on.

An account was then given of the different ways in which New Year's day (Jan. 1) has been celebrated from the time of the Romans, when it was kept in honor of Janus, until the present time.

What the Romans had observed as a feast in honor of the double-faced deity, celebrating it by kindly salutations and the exchange of presents—each taking care during the continuance of the celebration, that all his words and acts should be pure and blameless—was turned by the church into a fast; and New Year's gifts were repeatedly forbidden under severe penalties. In England, however, the heathen practice of exchanging presents was never overcome by the Church; so strong a hold does it seem to have had in the popular sentiment. Indeed the custom seems to have been older, in Britain, than the time of the Roman invasion. About the only public celebration of New Year's in England at this day is the ringing in of the new year and ringing out of the old.

The present year is memorable as the first year in which the heads of departments at Washington, and many other prominent men following their example, have resolved to furnish no intoxicating drinks to those who, in observance of the time honored custom of New York, celebrate the day by making calls upon the ladies of their households.

INJURIOUS INSECTS IN ESSEX COUNTY.

Dr. A. S. PACKARD spoke of several species of insects injurious to vegetation noticed during the past season in this vicinity—specifying among others

THE ONION THRIPS.

About the middle of August my attention was called by Mr. B. P. Ware of Swampscott to serious losses of his onions from the attacks of a minute insect. The leaves were observed to turn suddenly yellow and to wilt, and the plant die. In this way large patches became infested and turned yellow, until in two or three days these prolific insects spread over the whole field. They seemed to increase most rapidly during the unusually dry hot weather that we experienced about the middle of last August. On the 11th of August a whole acre was thus cut off. Mr. Ware informed me that onion plants have been more or less infested in this way for some fifteen years, but the damage done this year was greater than ever before. This evil seems wide spread in Essex County, as not in Swampscott alone, but in Lynn, Salem and parts of Danvers, the onion crop had been similarly infested. About \$100,000 worth of onions are raised in Essex County alone, and Mr. Ware judged that at least a tenth part was destroyed by this new pest, so that in one county alone and from one kind of injurious insect we have in one season lost \$10,000. The onion crop is next to the hay crop in value, as it is sold for cash.

On examining the specimens brought into the Museum of the Peabody Academy of Science, the leaves were found to be covered with hundreds of a minute thrips which by gnawing the surface of the leaves had caused them to turn white in spots, and subsequently yellow; where they were most numerous the outer skin of the fleshy leaves was entirely eaten off, and though it was difficult to imagine that so minute an insect could have

Fig. 1.

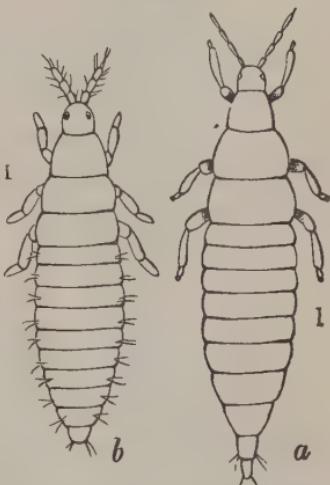
Limothrips
tritici (fem.).

caused the death of so stout and thick-leaved a plant, yet here were hundreds of the culprits in all stages of growth plying their jaws before our eyes in proof.

This insect, which occurred in both sexes and in all stages of growth from larvæ of minute size proved to be the wheat thrips (*Limothrips tritici*) of Fitch who gives an account of its appearance and habits in his "Second Report on the Noxious Insects of New York," p. 304.

Through the kindness of C. L. Flint, Esq., of the Mass. State Board of Agriculture, we are enabled to present figures of these insects taken from Dr. Packard's Report to the Board as State Entomologist. The females alone are winged, the males being wingless and closely resembling the larvæ. The body of the female (Fig. 1) is smooth and shining, uniformly greenish yellow with no other markings; the legs are a little paler towards articulations. The larva (Fig. 2, b) is entirely greenish-yellow, the head and prothorax of

Fig. 2.

Larva and male of *Limothrips tritici*.

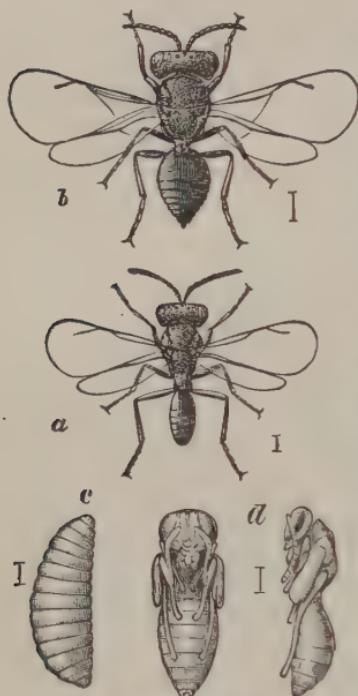
the same color as the rest of the body. The male (Fig. 2, a) differs from the larva in having 2-jointed feet (tarsi) and 7-jointed antennæ, those of the larva being 4-jointed. The small line at the side of each figure indicates the natural size of the insect.

THE ONION FLY.

which in its larval condition attacks the roots of the

onion, was briefly alluded to. It appears about the middle of May and continues its ravages until nearly the third week in August, when it changes into the pupa or chrysalis state.

Fig. 3.

Parasite of the Imported Cabbage
Butterfly.

IMPORTED CABBAGE CATERPILLAR AND ITS PARASITE.

was next mentioned. This caterpillar during the past summer has been fearfully abundant in gardens in this vicinity, and would have done still greater injury to the growing crops were it not for the presence of the parasite which had been found to prey upon it very extensively.

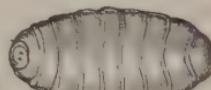
The figures annexed illustrate the several stages (Fig. 3, *a*, male; *b*, female; *c*, larva; *d*, pupa) of this invaluable ichneumon parasite which is one of the Chalcid family, and is the *Pteropis puparum* of Linnæus.

Dr. Packard had supposed that this parasite had perhaps been imported with its host, but it is now found to be a native of this country as well as of Europe, and cited authorities confirmatory of this assertion.

Fig. 4.

LARVA OF TACHINA.

Another parasite which he mentioned was the larva of a parasitic fly, *Tachina* (Fig. 4, enlarged three times), the adult form of which closely resembles the common house fly. It is a flattened,

Larva of *Tachina*.

cylindrical maggot, both ends of the body rounded much alike.

Mr. PUTNAM remarked that he had collected several hundred of the caterpillars and pupæ of the cabbage butterfly during the month of September, the caterpillars having crawled up the side of his house from an adjoining field where a large number of cabbages had been entirely destroyed by them. He had noticed that a very large number of the pupæ were infested by parasites, many of which came out during the month of September and in October. The butterfly will be out early in the spring.

Discussion followed on these and kindred subjects, participated in by Messrs. Packard, Putnam, Bolles, Goodell and the chair.

William Gardner Barton of Salem and Beaman Gates of Beverly were elected members.

The LIBRARIAN reported the following additions:—

By Donation.

GREEN S. A., of Boston. Miscellaneous pamphlets, 24.
HINGHAM AGRICULTURAL AND HORTICULTURAL SOCIETY. Transactions for 1871. 8vo pamph. 1872.

HOLDEN, N. J. Wells' English Grammar, 1 vol. 12mo. The Commonwealth, 245 nos. The Liberator, 171 nos. National Anti-slavery Standard, 256 nos. Lynn News, 25 nos. Saturday Night Press, 10 nos. Miscellaneous pamphlets, 50. Miscellaneous serials, 10.

HOLMES, JOHN C., of Detroit, Mich. Michigan School Report for 1870. 1 vol. 8vo. Lansing, 1870.

LEE, GEO. C. New York City Directories, 1858, 1865, 1866, 1867, 1869, 1870. 6 vols. 8vo. Boston Directories, 1858, 1860, 1861, 1862, 1863, 1866, 1867, 1868, 1869, 1870. 10 vols. 8vo. Bankers' Magazine, Vols. II, III, 1847-8, 1848-9. 2 vols. 8vo. Boston Board of Trade, 1865, 1868. 2 vols. 8vo. Water Power of Maine. 1 vol. 8vo. Report of the Commissioners of Patents for 1851. 1 vol. 8vo. Commercial Relations of U. S., Vols. I, II. 2 vols. 4to. Washington, 1856-1857.

LEE, JOHN C. Commercial Bulletin for Dec., 1871.

VINTON, JOHN A. Giles' Memorial. 1 vol. 8vo. Boston. 1864.

WILDER, MARSHALL P., of Boston. Historical Address before the Massachusetts Agricultural College, July 19, 1871. 8vo pamph.

WILLIAMS, HENRY L. The National Eagle, 1870. 8 nos. Miscellaneous pamphlets, 6.

By Exchange.

ACADEMIE IMPÉRIALE DES SCIENCES BELLES LETTRES ET ARTS IN BORDEAUX. Actes. 3e Série. 31e Année. 1869. 8vo. Paris. 1869.

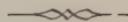
KONIGLICH BAYERISCHEN AKADEMIE DER WISSENSCHAFTER ZU MÜNCHEN. Sitzungsberichte der philosophisch-philologischen und historischen Classe. 1871. Heft I, II, III. 8vo pamphlets. München, 1871. Sitzungsberichte der mathematisch-physikalischen Classe. 1871. Heft I. II. III. 8vo pamph. München, 1871. Die Aufgabe des chemischen Unterrichts gegenüber der Anforderungen der Wissenschaft und Technik. Rede gehalten in der öffentlichen Sitzung der k. Akademie der Wissenschaften am 25. Juli, 1871, von Dr. Emil Erlenmeyer. 4to pamph. München, 1871.

MASSACHUSETTS HISTORICAL SOCIETY. Collections, Vol. x. Fourth Series. 1 vol. 8vo. Boston, 1871.

SOCIEDAD DE NATURALISTAS NES-GRANADINOS. Esploracion entre San José De lúcuta I el Rio Magdalena, 8vo pamph. Bogota, 1871. Informe de los Esploradores del Territorio De San Martin. 8vo pamph. Bogota, 1871. Catálogo del Estado S. De Antisquia, 8vo. pamph. Bogota, 1871.

SOCIÉTÉ IMPÉRIALE DES SCIENCES NATURELLES DE CHERBOURG. Mémoires, Tome xv. 1870. 8vo pamph. Cherbourg, 1870. Catalogue de la Bibliothèque. 8vo pamph. Cherbourg, 1871.

PUBLISHERS. American Naturalist. Christian World. Gloucester Telegraph. Haverhill Gazette. Land and Water. Lawrence American. Little Giant. Lynn Reporter. Lynn Transcript. Medical and Surgical Reporter. Nation. Nature. Peabody Press. Salem Observer. Shoe and Leather Journal. Silliman's Journal.



REGULAR MEETING, MONDAY, JANUARY 15th, 1872.

THE President in the chair. Records of preceeding meeting read.

A TRIP TO CALIFORNIA BY RAIL.

J. J. H. GREGORY, Esq., of Marblehead gave a familiar talk upon California, and the things to be seen along the route of the Pacific railroad, beginning at Omaha. His descriptions were plain, graphic and interesting. Speaking of agriculture in Utah, he said the process of irrigation as carried on there was far less costly than he had supposed, as it consisted of the making of mere furrows with the plough. He spoke of the elements of dissolu-

tion in the Mormon system of polygamy, the principal one of which was the great influx of gentiles, though dissension in the church itself was doing much to undermine the system. Rents in Salt Lake City he described as "terrific," and the term was not too strong, judging from a single instance which he named, where the keeper of a rum shop paid seven thousand, two hundred dollars in rent and liquor tax for his room of thirty feet by eleven — about half the amount being for rent.

The Rocky Mountain slopes, the general scenery, the many miles of grain fields, and the agriculture of California, were described.

Oleanders were seen eighteen feet in height, Century plants thirty and forty feet. In Sacramento these bloom when fifteen years old. He also described the fruits, strawberries being sold at twenty-five cents for three quarts. Of the California wines he had a poor opinion so far as his observation extended, and judging by his own standard of taste.

Mr. Gregory will continue his remarks at the next meeting.

The LIBRARIAN mentioned the following additions:—

By Donation.

BOLLES, E. C. Miscellaneous pamphlets, 19.

COLE, Mrs. N. D. Salem Gazette for 1871.

FOOTE, CALEB. Files of several county papers for Oct., Nov., Dec., 1871.

NATIONAL ASSOCIATION OF WOOL MANUFACTURERS. Bulletin for Oct., 1871.

PALFREY, C. W. Miscellaneous pamphlets, 33.

POORE, BENJ. P., of Washington, D. C. Washington and Georgetown Directories for 1865, 6, 7, 8. 4 vols. 8vo.

U. S. A. CHIEF OF ENGINEERS. Report on Geological Exploration of the 40th Parallel, Vol. V, Botany. 1 vol. 4to. Washington, 1871.

By Exchange.

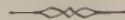
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA. Proceedings of. Part II. April-Sept., 1871. 8vo pamph.

BOSTON NUMISMATIC SOCIETY. American Journal of Numismatics for Jan. 1872. 8vo pamph.

HISTORICAL SOCIETY OF DELAWARE. Catalogue of, with its History, Constitution and By-laws. 8vo. pamph.

NEW ENGLAND HISTORIC-GENEALOGICAL SOCIETY. Register and Antiquarian Journal of Jan., 1872. 8vo pamph.

PUBLISHERS. American Literary Gazette. Gloucester Telegraph. Haverhill Gazette. Lawrence American. Little Giant. Lynn Reporter. Lynn Transcript. Medical and Surgical Reporter. Nation. Nature. Peabody Press. Quarritch's Catalogue. Sailors' Magazine and Seamen's Friend. Salem Observer. Shoe and Leather Journal.



DEFICIENCIES IN THE LIBRARY.

It is intended from time to time to publish lists of deficiencies in the Library hoping that the friends of the Institute, who may notice the same, will be induced to aid in completing the sets. Any number or volume, not designated (within brackets) under any title, will be acceptable.

DEFICIENCIES IN DIRECTORIES.

[Continued from volume iii, page 96.]

WASHINGTON, D. C., by E. A. Cohen [1834]; by A. Reintrel [1843]; by Gaither & Addison [1846]; by E. Waite [1850]; by A. Hunter [1853]; by I. Teu Eyck [1855]; by W. H. Boyd [1858, 1860]; by T. Hutchinson & Bro. [1863]; by A. Boyd [1864, 1865, 1866]; by W. H. Boyd [1867, 1868, 1869, 1870].

SOUTHERN CITIES, by John P. Campbell [1854]; by W. R. Dunkley [1866-67].

VIRGINIA Directory and Business Register, by Elliott & Nye [1852].

RICHMOND, VA., by John Maddox [1819]; by E. Fuslew [1860]; by Mills & Starke [1866].

WHEELING, WEST VA., by Williams & Co. [1867-8, 1868-9].

CHARLESTON, S. C., by J. H. Bagget [1852].

AUGUSTA, GA., by E. H. Paghe [1867].

SAVANNAH, GA., by Purse & Son [1866].

MOBILE, ALA., by Fawn & Dennett [1861, 1866].

JACKSON, MISS., by J. L. Power [1860].

NEW ORLEANS, LA., by Cohen [1849]; by R. C. Kerr [1856]; by C. Gardner [1859].

TENNESSEE STATE Gazetteer and Directory, by J. L. Mitchell [1860].

MEMPHIS, TENN., by Tanner, Halpin & Co. [1859]; by Williams [1860].

NASHVILLE, TENN., by J. P. Campbell [1853, 1855-6, 1857, 1859]; by E. D. King, [1865, 1866, 1867, 1868, 1869].

LOUISVILLE, KY., by G. Collins [1836].

LAKE SHORE Gazetteer and Business Directory [1861-62].

C. C. C. & I. R. R. Gazetteer by Hynes Bro. [1870-1].

AKRON, ALLIANCE, CUYAHOGA FALLS, MIDDLEBURY, KENT, CANTON, RAVENNA, MASSILLON, SALEM, WOOSTER, OHIO, by Wiggins & Weaver [1870-1].

CHILlicothe Ohio, by J. B. Doyle [1855-6]; by Williams & Co. [1869-70].

COLUMBUS, OHIO, by J. R. Armstrong [1843-4, 1855]; by Williams & Co. [1867-8, 1869-70].

CINCINNATI, OHIO, by C. S. Williams [1848-9, 1850, 1852]; by Robinson & Jones [1846]; by D. F. Shaffer [1849]; by C. S. Williams [1849-50, 1850-1, 1851-2, 1853, 1855, 1856, 1861, 1859, 1867, 1858, 1866].

DAYTON, OHIO, by C. S. Williams [1860-1].

SANDUSKY, OHIO, by W. D. Root [1855].

SPRINGFIELD, OHIO, by Williams & Co. [1868-9].

STEUBENVILLE, WELLSVILLE, EAST LIVERPOOL, and WELLSBURGH, OHIO, by Wiggins & Weaver [1870-1].

STEUBENVILLE, OHIO, by C. S. Williams [1856].

TOLEDO, OHIO, by C. S. Williams [1860]; by Scott [1866, 1867].

XENIA, OHIO, by Williams & Co. [1870-1].

ZANESVILLE, OHIO, by C. S. Williams [1860-1].

WESTERN RESERVE Register, by Sawyer, Ingersoll & Co. [1852].

DETROIT, MICH., by Duncklee, Wales & Co. [1850]; by C. F. Clark [1865-6].

INDIANA, STATE. State Gazetteer and Business Directory by G. W. Hawes & Co. [1832-3]. State Gazetteer and Shipper's Guide, by M. V. B. Cowen [1866-7].

INDIANAPOLIS, Ind., by R. Edwards [1865-6, 1867]; by Logan [1867-8]; by H. N. McEvoy [1858-9]; by Hawes & Co. [1865] by R. Edwards [1866]; by Logan [1868]; by R. Edwards [1869]; by Hutchinson [1870].

ILLINOIS STATE Business Directory, by Smith & Du Moulin [1860]; Northern Counties, by E. H. Hall [1855-6]; State Gazetteer and Business Directory, by G. W. Hawes [1858-9].

ILLINOIS AND MISSOURI State Directory by W. L. Montague [1854-5]. Central Directory by James P. Crawford [1869].

CHICAGO, ILLINOIS, by O. P. Hatheway & J. H. Taylor [1849-50]; by E. H. Hall [1855-6]; by John Gager [1857]; by Tanner, Halpin & Co. [1858]; by R. V. Kennedy [1859-60]; by T. M. Halpin & Co. [1860-1]; by Smith & Du Moulin [1860]; by T. M. Halpin [1861-2, 1862-3, 1863-4, 1864-5, 1865-6] by J. T. Hair [1865-6]; by R. Edwards [1867]; by Smith & Du Moulin [1859]; by W. S. Spencer [1864-5]; by W. F. Bartlett [1857-8]; by R. Edwards [1869].

GALESBURG, ILLINOIS, by O. E. Root [1861].

WILL COUNTY, ILLINOIS, by J. C. W. Bailey [1859].

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